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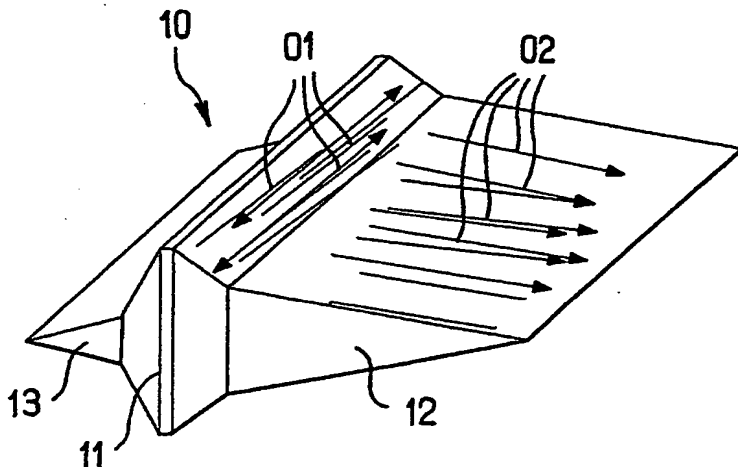
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As printed

(54) Title: METHOD FOR THE PRODUCTION OF PLANT CUTTING FILAMENTS AND PLANT CUTTING FILAMENTS

(54) Titre : PROCEDE DE FABRICATION DE FILAMENTS DE COUPE DE VEGETAUX AYANT DE NOUVELLES PROPRIETES, ET FILAMENTS AYANT DE TELLES PROPRIETES



(57) Abstract: The invention relates to a method for the production of a cutting filament for a device used to cut vegetation such as a strimmer or border cutter. The filament is made of a synthetic material having extended molecular chains. According to the invention (a), the filament (10) is brought to a controlled viscous state, (b) the filament is stretched according to the length thereof in order to perform a first longitudinal molecular orientation (01), (c) a cross-sectional change, resulting in a partial reorientation of molecular chains in a transversal direction (02), is imposed upon the filament, whereupon filaments having multiple molecular orientations are produced, having improved mechanical properties (e.g. a better resistance to tearing).

(57) Abrégé: L'invention vise un procédé de fabrication d'un filament de coupe pour appareil de coupe de végétation tel que débroussailluse ou coupebordures. Le filament étant réalisé en matériau synthétique à chaînes moléculaires allongées. Selon l'invention (a) on amène le filament (10) dans un état de viscosité contrôlée, (b) on étire le filament selon sa longueur pour réaliser une première orientation moléculaire longitudinale (01), (c) on impose au filament un changement de section transversale apte à provoquer une réorientation partielle des chaînes moléculaires dans une direction transversale (02). On réalise ainsi des filaments à orientations moléculaires multiples, ayant des propriétés mécaniques améliorées (par exemple une meilleure résistance à l'effilochage).

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- *Of inventorship (Rule 4.17(iv)) for the following designation US.*